

# Orange and Blue

(ALABAMA POLYTECHNIC INSTITUTE, AUBURN)

Vol. XV

Auburn, Ala., February 6, 1909

No. 9

Published by a Board of Editors from the Senior and Junior Classes.

Devoted to the General Interests of the College

Entered at the Post Office at Auburn, Ala., as second class mail matter, in accordance with Act of Congress of March 3, 1879.

Subscription Rates, \$1.00 Per Year.

Address all matter intended for publication to the Editor-in-Chief.

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Episcopal Church—Rev. M. E. Bethea, rector. Preaching every Sunday at 11 a. m. and 5 p. m. Sunday School, 9:30 a. m., S. L. Toomer, superintendent.

Y. M. C. A.—S. O. White, president; W. I. Pittman, vice-president; O. M. Geibel, secretary; C. M. Howard, treasurer.

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Websterian Literary Society—W. M. Howell President. Meeting every Saturday night at eight o'clock in Websterian Hall.

Wirt Literary Society—S. H. Richardson, president. Meeting every Saturday night at seven o'clock in Wirt Hall.

Senior Class—B. E. Harris, president; T. C. Mitchell, vice-president; L. H. Hubbard, secretary; A. H. Skinner, treasurer; S. H. Richardson, historian; Miss Hattie Finley, poet; prophet and orator to be selected.

Fraternities in order of establishment at Auburn—Phi Delta Theta, Alpha Tau Omega, Kappa Alpha, Sigma Alpha Epsilon, Sigma Nu, Pi Kappa Alpha, Kappa Sigma, Theta Nu Epsilon.

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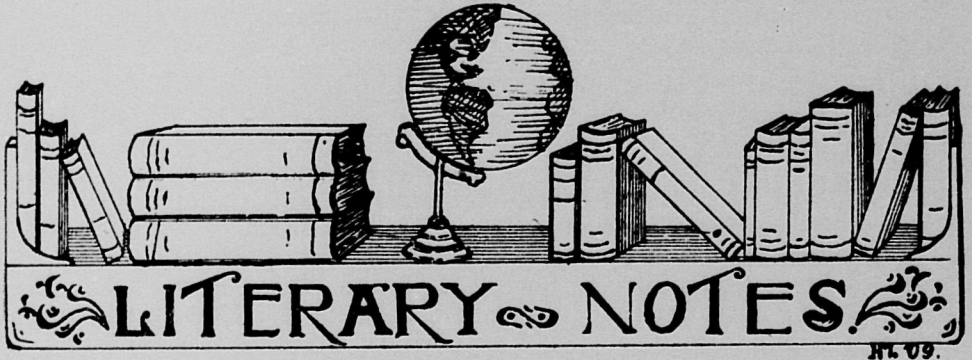
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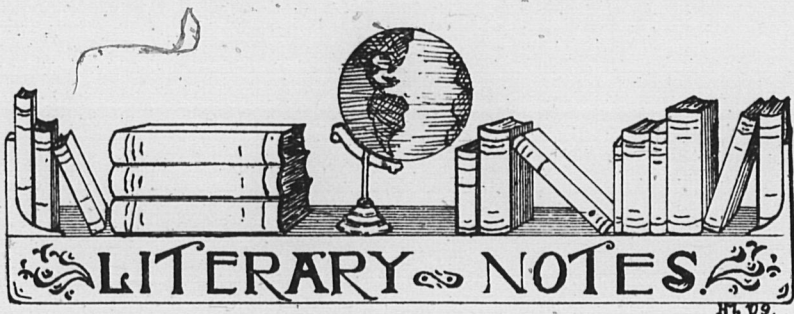
AN ESSAY.

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Great geniuses have the shortest biographies; and if one would know their best tastes and complexions their greatest admirer must *resemble* them. Tolstoi, especially, has no external biography. All he possesses he grounds into print. Such a man is the truly original man. Tolstoi is the messenger of Russia to Europe; the messenger of Europe to the world. We feel that what he says is coming from his innermost heart, and we must believe him.

To Tolstoi the whole meaning of life is comprised in the passing from life to death, to the other world. He sees Russia as the patriot and the world as the philosopher or prophet. Being the greatest portrayer of the human animal in language, as Michael Angelo was in colors and marble, he stands above his fellow mortals past and present. We see the man, in various ways building up religion, heroic forms of human existence, theories worthy to be superior to Socrates or Plato, tragedies and comedies deeper than Dante's or Shakespeare. A man comparable with Rousseau, Shaw, Swedenborg and Carlyle,—a glorious man! The first who dared to strip the human being of all social and historical wrappings and to advance the Aryan idea in the twentieth century.

Thus to-day Tolstoi is the greatest living Russian; the shining star of intellectual Europe. He is great because he wrestled with the superficial bonds of society. Because he fights the terrors of his own loving country and conquers. Holds up his burning words against Russia the abstract, spectral, fantastical, and at the same time pitilessly unmerciful. It is hard to believe if there was anything of more importance to the interests of the Revolu-



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tion in Russia than his stand in the first rank, right on the firing line.

But before we mention the Revolution and Tolstoi's attitude towards it, it will be best to survey the Russian as a people. As a matter of fact they have not yet reached the stage of civilization when hypocrisy acquires sufficient value to flourish. The Russian of today is simply an example of that barbarism through which all Western nations have likewise passed—and not so very long ago after all. Nor is the cruelty of the Russian of that fiendish type characteristic of Southern Europe. It is akin rather to the dull brutality of the Northerner, due to ignorance and bluntness of perception, which passes away gradually with the growth of civilization.

Hence it was natural that Tolstoi should want for a Revolution to bring about that civilization, or rather—since wanting is not his mode, that he should work towards it. But in the programme of political liberalism he took little interest. A people might—like that of Finland—be free, yet be no more than a *congeries* of persons. "Dear friends," he cried to the world in his "Confession" of 1872, "the Liberals are freedom's worst enemies. Freedom of thought and spirit thrive best under revolutionism, this was shown in France, afterwards in Germany, and now we *will* see it in Russia." Which Von Plehve, like a good *member* of the Government Party, said, "The minority is right." Tolstoi, a lover, as was George Washington, of natural democracy, was ready to maintain that right is always with the majority.

To sum up the man on that score would be sufficient to take his writings and actions towards the Russian Government. He acted towards it with almost the hostility of an Anarchist. He points out that Jewish people—"the nobility of the human race"—as a nation without a State, possessing an intense national consciousness and great individual freedom, but no organized government. And why not apply the same to Russia? he asks. "Governments, States, religion, will pass away, but men will remain."

As a Man of Letters Tolstoi stands among the greatest the world ever produced. To write of him as such would remain vague, problematic; no impression but a false one could be realized without going into every detail, into every thought of his voluminous production. Only a *genius* could write such a work as "War and Peace," a work that held literally a world in suspense. Take his



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"Resurrection" and you will find that it made more people good than ever the Bible did. Take Carlyle's excellent words for the interpretation of the Writer of a Book and you have Tolstoi,—"*a sort of heart, from which, and to which, all things circulate in the world!*" Dr. Steiner says of Tolstoi as a writer—"his writings are best characterized by sayings, that there is in them an overwhelming desire for truthfulness. This explains the simple plot of his stories, the naturalness of his characters, the absence of artificial tension."

Now as to his religious creed. Tolstoi is not a founder of a new religion, but rather the upholder of the old one. The whole of his theological and sociological creed may be said to be embraced in his one imimitible sentence, in the Second Golden Rule: God is his father, all men are his brethren." He tried hard to be an agnostic and agree with Confusianists, Buddhists, and Atheists and never consider the conception of God, *and* failed. To-day there is no one Tolstoi but a score of Tolstois. His teachings extend themselves like American trade. He, the philosopher, the divine, the revolutionist, the hundred-handed, has conquered the world. For what other man in the history of the last thousand years thought as Tolstoi thinks. To think as Buddha did, that man's error and miseries arise from inadequate knowledge, from not knowing and understanding when *they* might and should know and understand.

This inadequate knowledge, this lack of understanding of the Russian peasant, is the prime factor of Tolstoi's whole activity in religion. He had to change the Russian Church system to bring about the other half of the Revolution. For the average peasant Orthodox spells Russian, and Russian Orthodox. His conception of the Diety is still Pagan, or at least pre-Christian, as the favorite idol to the savage tribes, the God of the Russian peasant, and not only the peasant, is in a sense his own peculiar possession. General Stoessel, in his proclamation to the garrison on taking up the command of Port Arthur, declared that "the 'Russian' God had always maintained the righteous cause, and would assuredly do so on that occasion." And at a great conflagration in St. Petersburg in 1901, at which incident I was myself present, a small church remained untouched in the midst of the flames, when I heard a soldier exclaim, "See! the Russian God cannot burn." All this plainly explains the reason of Tolstoi's new-old religious doctrines. This is his other half of the

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revolution. Two complementary evils, that when you do away with one, you get rid of the other.

One last picture of the man: the renegade Russian, the nobleman, the Count, strives for the lowest element of the world, for the lowest of Russian, which the Government is in constant war, for a people that seems even God in his scorn has forgotten. A man luxurious in his very moderation and simplicity, with his admiring life of the American Quaker, representative of all political parties, of all religious activities, "of all nations." The man whom even his greatest critic Marjerowski, admires when he says: "A man whose whole life, might and soul to God's own cause and people was consecrated." The man who, not only in word, gave away all he had—

Himself remaining ragged and naked,  
Throughout the length and breadth of his own land.  
Treading in the footprints of the King of Heaven,  
A peasant penniless."

Momentous may well be the effect on the world that Tolstoi, at present the greatest of Russians, should before his death realize this fact that we have dimly come to understand him; that he should find time, if not, to write, at least to tell about it. Ah! the world should listen thirstily to his words; should treasure them, though uttered in the last delirium! The final truth cannot yet be written down, it can only be spoken and carried out. Will Tolstoi find time? God grant him and the world that he may! For Tolstoi is the great column standing apart in the propylaeum of the temple—that temple of Russian religion and government which will be I believe, the future religion and government of the whole world.

M. B. GOTTLIEB.

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### HOPE.

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(Based on Schiller's "Die Hoffming.")

H. C. NIXON.

Much does man think and talk and dream  
Of better future days;  
He sees a golden goal to gleam  
And labors by its rays.  
The world grows old and young again,  
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Hope ever leads one through life's course;  
She holds the child at play,  
Entices youth with magic force,  
Nor does with age decay;  
Upon the grave, when life is spent,  
There stands, to Hope, a monument.

It's no illusion vainly fraught,  
That foolish thought may move;  
Most strongly stands the throbbing thought  
That man's born to improve.  
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D. HERREN, *Editor.*

At a recent meeting of the Advisory Board of the Athletic Association the following men were each awarded a football A.: Locke, Davis, J. G.; Bonner, Harris, Davis (Big One), Cogdell, Beaver, Penton, Allan, Garrett, Hill, Sparkman, McLure, Wynne, Reynolds, Hardage, Esslinger, Herren, Lamb, Harmon, Motley, Swarts and Speigner.

At the same meeting Hubbard and Skinner were each awarded an A for faithful work on the scrub team. This is following out the rule that every year the two most deserving seniors on the scrub team shall be given an A. Anyone who has watched these two boys work during the past season will understand why they are accorded this honor. The board also did a noteworthy act in awarding an A. to Gaum. This is somewhat out of the ordinary, awarding the letter to a man after he has graduated, but considering the service Gaum has rendered Auburn he deserves it. He scrubbed faithfully the two years he was an undergraduate, having entered the junior class. And then when he came back this year to take a post graduate course again took to the football field and with no assurance, and no hope of reward took his place on the scrub team and helped to make the best team Auburn has had for a long time. He is deservedly rewarded.

#### AUBURN—BESSEMER.

On Saturday night, January 16th, Bessemer defeated Auburn in a fast basket ball game by the score of 17 to 10.

17 to 10



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14. The game was a fight from the beginning to the end, and every point made was well earned. The game was played before a large crowd, who were very anxious for Auburn to win, but the visitors came out victorious. Auburn kept the ball in her territory most of the time, getting shots time and again, but only making a few of them good.

After a few minutes of play, Major, who was playing center for Auburn, had to be taken out of the game on account of a lame knee. Locke "the old reliable" took his place at center, while Scarbrough went in at R. G. in Locke's place. The score at the end of the first half was very close, therefore both teams had a chance to win in the second half, and the fighting during this half was even harder than during the first half. Several times during the last of the game "Daddy" would push his opponents off with one hand and make some very hard goals, but the visitors were also busy during this time, and at the end of the half were three points ahead.

The playing of Houston and Johnson for Bessemer was good, while that of Locke, Burleson and Scarbrough for Auburn may be mentioned.

### SCORE OF THE GAME.

Bessemer—Houston 8, Johnson 5, Lacy 2.

Auburn—Locke 8, Scarbrough 4, Parker 2.

### LINE UP.

| Auburn.                     |           | Bessemer.  |
|-----------------------------|-----------|------------|
| Gordy.....                  | R. F..... | Johnson    |
| Parker-Hall.....            | L. F..... | Johnson... |
| Scarbrough .....            | R. G..... | Bumgartner |
| Burleson .....              | L. G..... | Bailey     |
| Majors, Locke (Capt.) ..... | C.....    | Houston    |

### AUBURN—COLUMBUS.

Auburn met the Columbus Y. M. C. A. in a second game of basket-ball in the gymnasium Jan. 8th, this being our second game of the season.

Columbus led the score at all times and the result was never in doubt. Auburn showed quite a lack of team work, while the Columbus quintette showed that they had been working together for sometime. The playing was

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a little rough, but the game taken as a whole was exceptionally clean, there being only six fouls; three for each side. The feature of the game was the playing of Peddy for Columbus. Of the 41 points made by Columbus he made 35, throwing 17 field goals, and one foul goal.

The game in detail was as follows:

Columbus—Field Goals: Peddy, 17; Massey, 2; Dozier, 1.

Foul Goals: Peddy, 1.

Fouls on Columbus, 3.

Auburn—Field Goals: Gordy, 4; Parker, 1; Majors, 1.

Field Goals: Gandy, 4; Parker, 1; Majors, 1.

Foul Goals: Majors, 2.

Fouls on Auburn, 3.

### THE LINE UP.

| Columbus.                                                               |               | Auburn.              |
|-------------------------------------------------------------------------|---------------|----------------------|
| Peddy and Newman.....                                                   | Forwards..... | Parker and Gordy     |
| Massey .....                                                            | Centre.....   | Majors               |
| Dozier and McWilliams....                                               | Guards....    | Locke and Scarbrough |
| Burleson took Majors place in the second half, and Wright took Parkers. |               |                      |

### TULANE—AUBURN.

The Tulane basket-ball team stopped by Auburn Jan. 18th, while on their way to Montgomery, and received a "big lemon," which we had for her. Although the game was unexpected, the crowd that saw the Tulane bunch go down in defeat before the Auburn tigers, was better than was expected.

The game most of the time was slow, and uninteresting, but at times both teams would get busy and do some fast work. Auburn had the best of the visitors all during the game, and in the second half she did not have any trouble getting shots.

While the whole Auburn team did good work, the playing of Gordy, Scarbrough and Hall showed up better than the rest.

Scores—Tulane: R. F. Landner, 9; Huff, 6. Auburn: Gordy, 9; Scarbrough, 8; Hall, 6; Locke, 4; and Parker, 2.

| Auburn.            |           | Tulane.  |
|--------------------|-----------|----------|
| Gordy .....        | R. F..... | Landner  |
| Parker, Hall ..... | L. F..... | Bradburn |



a little rough, but the game taken as a whole was exceptionally clean, there being only six fouls; three for each side. The feature of the game was the playing of Peddy for Columbus. Of the 41 points made by Columbus he made 35, throwing 17 field goals, and one foul goal.

The game in detail was as follows:

Columbus—Field Goals: Peddy, 17; Massey, 2; Dozier, 1.

Foul Goals: Peddy, 1.

Fouls on Columbus, 3.

Auburn—Field Goals: Gordy, 4; Parker, 1; Majors, 1.

Field Goals: Gandy, 4; Parker, 1; Majors, 1.

Foul Goals: Majors, 2.

Fouls on Auburn, 3.

### THE LINE UP.

Columbus.

Auburn.

Peddy and Newman.....Forwards.....Parker and Gordy

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Auburn.

Tulane.

Gordy .....R. F. ....Landner

Parker, Hall .....L. F. ....Bradburn

|                        |           |               |
|------------------------|-----------|---------------|
| Burleson, Wright ..... | R. G..... | Wamsley, Huff |
| Scarborough .....      | L. G..... | Behren        |
| Locke .....            | C.....    | Huff          |

### AUBURN—AUGUSTA, JAN. 22.

Before one of the most enthusiastic crowds ever assembled in our gymnasium for the purpose of witnessing a basket-ball game, the Auburn quintette defeated the Augusta Athletic Association by the decisive score of 37 to 9.

Both teams started in determined to win, but Auburn was stronger in her determination and after a few minutes of play it was clearly seen by all of the spectators, that the visitors were out classed, never the less they fought gamely during the first half. At the end of the first half Auburn had secured a good lead over her opponents which they were never able to overcome. When the whistle blew for the opening of the second half we found a change in the Auburn line up. Hall taking Parker's place at forward.

Auburn started the second half with a rush, while Augusta had not recovered from the first half, the intermission seemed to have done them very little good. Auburn rushed them off their feet time and again. It was only a matter as to how many points Auburn could make before the time was up. Wright was substituted for Burleson at guard.

The Auburn boys showed a marked improvement in their passing and goal shooting. The whole team played together and played well. "Daddy Locke" brushed the opponents off with one hand while he laid the ball over in the basket an even half dozen times. Gordy seemed to have had his shooting eye with him, while Scarborough made the play of the game when he threw a goal from the center of the field. Burleson, Parker and Wright played their usual good game.

Boatwright, Brinson, and Schmidt played good ball for Augusta. With a little more training the Augusta boys would have a good team.

Gordy got 1 foul, while Nevin threw 3.

The line up follows:

| Auburn.                      |        | Augusta.        |  |
|------------------------------|--------|-----------------|--|
| Gordy, (11) .....            | F..... | Boatwright, (4) |  |
| Parker, (4), Hall, (4) ..... | F..... | Brinson, (2)    |  |
| Burleson, Wright, (2) .....  | G..... | Nevin, (3)      |  |

|                  |       |               |
|------------------|-------|---------------|
| Burleson, Wright | R. G. | Wamsley, Huff |
| Scarborough      | L. G. | Behren        |
| Locke            | C.    | Huff          |

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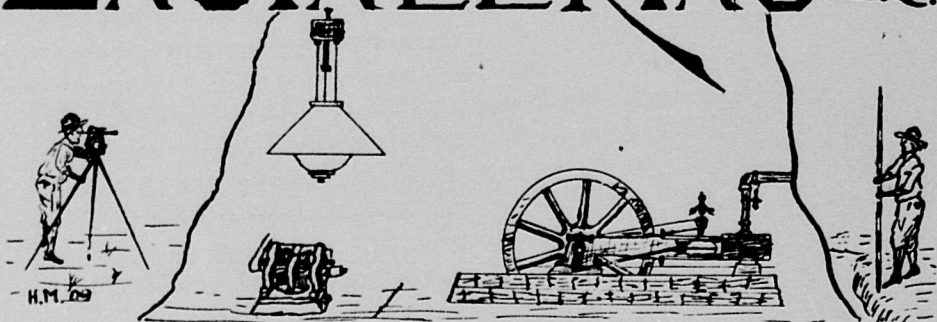
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Scarborough, (4) ..... G. .... Brown  
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Officials—Donahue.

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# ENGINEERING *Dept.*



J. G. STELZENMULLER, *Editor.*

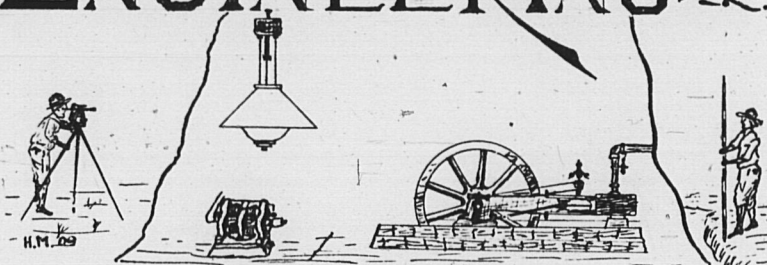
## *THE BUSINESS TRAINING OF THE ENGINEER.*

Engineering is markedly a profession of utility and the great function of the Engineer is the production for the community of work of the greatest value at the lowest cost. However, since in most cases the full results and profits of the Engineer's labors are only realized a number of years after the work is completed, the most profitable structure is not always the one whose first cost is least. Further the construction of the tool—power-plant, water-works, car line, or whatever it be—is not by any means the only factor which makes for the success of an enterprise. After the mill or shop is built it must be financed and operated on a business basis. Generally the Engineer gives over this managing of his product into the hands of others. He is satisfied to build the tool and let other men manage or mismanage its use, often greatly to their own gain and to the loss of the community. In order that this evil may be remedied it is proposed that greater attention should be given by Engineers to the business side of their training.

The reason of the Engineer's common lack in this direction is that his time is so fully taken up with the technical side of his work that he has no time left for acquiring the principles of business. He loves the scientific and technical and is often very little interested in the financing and operating of the enterprises which he makes possible. He is a man with a trained mind, brought up on good, straight, mathematics and thoroughly grounded in rigid, logical, principles; but he applies



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these things almost wholly to his purely Engineering functions. He side-steps everything that looks like a business proposition and thus leaves to others what he could better do himself—both in regard to his own interests and those of the community. Why is it that this attitude of mind is so common among Engineers? One answer given is that it results because the business side of his education is so entirely and universally neglected during his college course.

It is, of course, impossible that the art of business can be taught in a thorough manner in a scientific school, but then neither can Engineering: only a foundation can be laid. And it will hardly be denied that a broadening of his horizon, not to be obtained in any other way, would result for the student if only the prime laws and general principles underlying what we call business were absorbed during his four years at college.

Of course there are objections—the fact that the curriculum is already full, that the authorities dislike to teach anything outside of science, etc., etc.—these things are urged against the addition of business training to the science school curriculum. However this does not necessarily mean that a common agreement cannot be reached which will include some form of training in business for the young Engineer.

If he were so trained the Engineer would find no difficulty, when called upon to do so, in the drawing up of contracts, reporting on properties, etc. Further, he should be able, if an opportunity presented itself to take a hand in the promoting and financiering of an enterprise, and thus to make himself a much more valuable citizen than is his purely technical brother.

His science has taught him to deal with the laws and forces of nature; a little business training would teach him to deal with men and money and the laws relating to these. Such an addition to his education would in short raise him from his place as a machine for the exploitation of the financier to the commanding position in the community in which his high degree of training and usefulness deserve.

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We are glad to note that several other distinguished engineers have been invited to address this society at future meetings. Mr. Bullen, County Engineer of Montgomery county, being as we understand, the next on the program.

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### OVER THE STATE.

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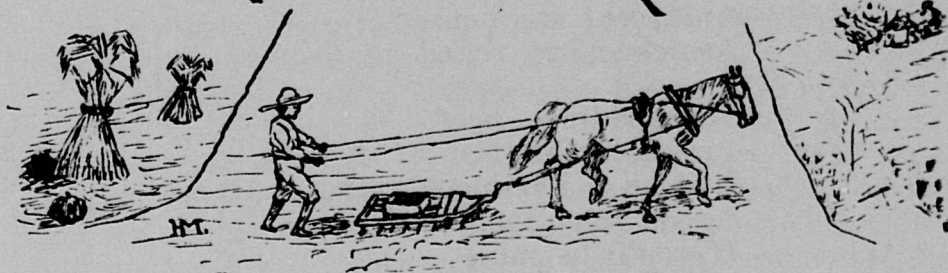
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# AGRICULTURAL

Dept.



H. J. CHATTERTON, *Editor.*

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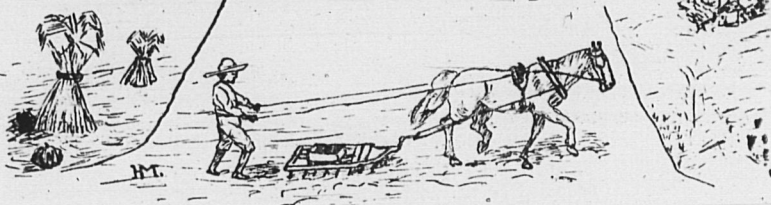
Every nation is reduced in the final appraisal of its estate, to reliance upon the soil. This is the sole asset that does not perish, because it contains within itself, if not abused, the possibility of infinite renewal. All the life that exists upon this planet, all the development of man from his lowest to his highest qualities, rest as firmly and as assuredly upon the capacities of the soil as do his feet upon the ground beneath him. The soil alone is capable of self renewal, through the wasting of the rocks, through the agency of plant life, through its chemical reactions with the liquids and gases within and about it. A self-perpetuating race must rely upon a self perpetuating means of support. One resource, therefore, looking at humanity as something more than the creature of a day, is the productivity of the soil. Yet the waste of our treasure has proceeded so far here in America that the actual values of the soil for productive purposes has already deteriorated more than it should have done in five centuries of use. Pres. James J. Hill.

### THE FARMER TO ———.

If plow and cart  
Can please your heart,  
With milking cows and swine,  
Come hear to me  
And you shall see  
I've plenty, Valentine.



# AGRICULTURAL *Dept.*



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 In plenty yields,  
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 Fine sheep in pens,  
 And cocks and hens,  
 Are chuckling round my door.

For puddings, beef,  
 Provision chief,  
 And up the chimney, bacon,  
 Sweet Valentine,  
 If you'll be mine  
 You'll never be mistaken.

ANSWER OF ——— TO THE FARMER.

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 Have won my heart;  
 Pray who could better wish?  
 With corn in store,  
 Fowls at the door,  
 And milk, a well filled dish.

Let other's fate  
 Be high and great,  
 A farmer's wife be mine.  
 I'll milk the cows  
 And mind the house,  
 And feed the grunting swine.

In summer's day  
 I'll help make hay  
 While hot the sun does shine.  
 Then come to me  
 And let's agree  
 About it, Valentine.

—Ex.

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DAIRY HERD RECORD.

During the month of October, an Alabama herd of 26 cows produced 784.74 lbs. of butter on a monthly average of 31 1-2 lbs., slightly over 1 lb. per day.

The profit for the month on this herd was \$158.10, the butter being sold for 30 cents per pound.

This herd has been bred and developed under our own

## ORANGE AND BLUE.

Good corn my fields  
 In plenty yields,  
 My barns are filled with store,  
 Fine sheep in pens,  
 And cocks and hens,  
 Are chuckling round my door.

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J. W. R.

### *A FEW REMARKS ON THE FEEDING OF POULTRY.*

It has been estimated that a hen weighing 4 1-2 pounds requires the following amount of food to keep it alive and in good health, that is neither gaining nor losing flesh; Protein, 0.224 oz.; Fat, 0.087 oz.; Carbohydrates, 1.0 oz.; These figures apply to the digestible nutriment and represent one days ration only. The nutritive ratio or proportion of protein to other food is 1 to 4.33 which seems like a very narrow ratio but the food requirements of a fowl are different from those of animals.

For laying hens a wider ratio, or one in which the protein is less in proportion, has been better than the above maintenance ration. The Massachusetts Experiment Station made a series of experiments to find out the effect of a wide and a narrow ration on the number of eggs produced and obtained the following results. Milk was used to furnish the greater part of the protein in both experiments:

|         | Nutritious<br>Ratio | Food        | Eggs per hen<br>per day |
|---------|---------------------|-------------|-------------------------|
| Exp. 1. | 1 to 6.48.....      | Corn .....  | 0.4166                  |
|         | 1 to 4.44.....      | Wheat ..... | 0.3570                  |
| Exp. 2. | 1 to 4.3 .....      | Wheat ..... | 0.3732                  |
|         | 1 to 6.4 .....      | Rice .....  | 0.3328                  |

These experiments show that the wider ration was much the better for producing eggs.

Skim milk can be very profitably fed to chickens, especially to young chickens that are being raised for the market. It is safe to say that all chickens should have a yard to run in even if they are being fattened for market. The Maine Experiment Station made the following experiment to determine the value of skim milk for young chickens and also to determine the effect of keeping the chickens in yards and in small coops. The solid food consisted of corn meal, and wheat middlings which were fed as a soft mash. The chickens in experiment 1 were 95 days old at the beginning of the test while those in Experiment 2 were 160 days old. The experiments lasted 21 days.

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| EXPERIMENT I.<br>Chicken 95 days old.             | Gain per bird<br>in 21 days. | Lbs. of food re-<br>quired for each<br>lb. of gain. |
|---------------------------------------------------|------------------------------|-----------------------------------------------------|
| Chickens in small coops.<br>Feed mixed with water | 1.34 pounds                  | 8.92 pounds                                         |
| Chickens in coops<br>Feed mixed with skim milk    | 1.68 pounds                  | 6.85 pounds                                         |
| Chickens in yards<br>Feed mixed with water        | 1.43 pounds                  | 5.26 pounds                                         |
| Chickens in yards<br>Feed mixed with skim milk    | 1.71 pounds                  | 4.03 pounds                                         |
| EXPERIMENT II.<br>Chicken 160 days old.           |                              |                                                     |
| Chickens in coops.<br>Fed mixed with water        | .78 pounds                   | 9.74 pounds                                         |
| Chickens in coops.<br>Feed mixed with skim milk   | .87 pounds                   | 8.22 pounds                                         |
| Chickens in yards.<br>Feed mixed with water       | .45 pounds                   | 16.81 pounds                                        |
| Chickens in yards.<br>Feed mixed with skim milk   | .93 pounds                   | 7.63 pounds                                         |

These tables show better and cheaper gains for the chickens fed on skim milk both in the coops and in the yards. The yards gave better results than the coops did. By calculating the cost of the food and the value of the gain it was found that skim milk has a value of 50 cents per hundred pounds or four cents a gallon when fed to chickens along with other food.

Highly Carbonaceous rations tend to produce fat in hens at the expense of egg production and the foods that are richer in protein are better than those rich in starch, that is within certain limits. Corn is a valuable poultry food but must not be used alone as it frequently causes digestive troubles.

In keeping chickens for their eggs great care must be taken to prevent the hens from becoming fat because egg production decreases with the amount of fat taken on to the body. When feeding grain it should be thrown in leaves or straw and the hens should be made to scratch for it.

C. D. ALICE.



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In keeping chickens for their eggs great care must be taken to prevent the hens from becoming fat because egg production decreases with the amount of fat taken on to the body. When feeding grain it should be thrown in leaves or straw and the hens should be made to scratch for it.

C. D. ALICE.

| EXPERIMENT I.<br>Chicken 95 days old.   |             | Gain per bird<br>in 21 days. | Lbs. of food re-<br>quired for each<br>lb. of gain. |
|-----------------------------------------|-------------|------------------------------|-----------------------------------------------------|
| Chickens in small coops.                |             |                              |                                                     |
| Feed mixed with water                   | 1.34 pounds | 8.92 pounds                  |                                                     |
| Chickens in coops                       |             |                              |                                                     |
| Feed mixed with skim milk               | 1.68 pounds | 6.85 pounds                  |                                                     |
| Chickens in yards                       |             |                              |                                                     |
| Feed mixed with water                   | 1.43 pounds | 5.26 pounds                  |                                                     |
| Chickens in yards                       |             |                              |                                                     |
| Feed mixed with skim milk               | 1.71 pounds | 4.03 pounds                  |                                                     |
| EXPERIMENT II.<br>Chicken 160 days old. |             |                              |                                                     |
| Chickens in coops.                      |             |                              |                                                     |
| Fed mixed with water                    | .78 pounds  | 9.74 pounds                  |                                                     |
| Chickens in coops.                      |             |                              |                                                     |
| Feed mixed with skim milk               | .87 pounds  | 8.22 pounds                  |                                                     |
| Chickens in yards.                      |             |                              |                                                     |
| Feed mixed with water                   | .45 pounds  | 16.81 pounds                 |                                                     |
| Chickens in yards.                      |             |                              |                                                     |
| Feed mixed with skim milk               | .93 pounds  | 7.63 pounds                  |                                                     |

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*THE SEMI-ANNUAL MEETING OF THE ASSOCIATION OF AGRICULTURAL SCHOOLS AT AUBURN, JANUARY 29 AND 30.*

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The semi-annual meeting of the Association of Agricultural Schools which is being conducted here at Auburn, now as we go to press, is one of great importance. The membership of this Association is composed of the Presidents and Agriculturalists of the nine Agricultural Schools of this State, the State Commissioner of Agriculture, and various Professors of the Auburn faculty.

Subjects pertaining to Agriculture and to the best methods of teaching Agriculture in the Agricultural Schools are being discussed at this meeting.

One of the most important things that will be done at this meeting will be to adopt a curriculum that will be suited to all of the Agricultural Schools.

A fuller and a more detailed account of this meeting will appear in the next issue of the Orange and Blue.



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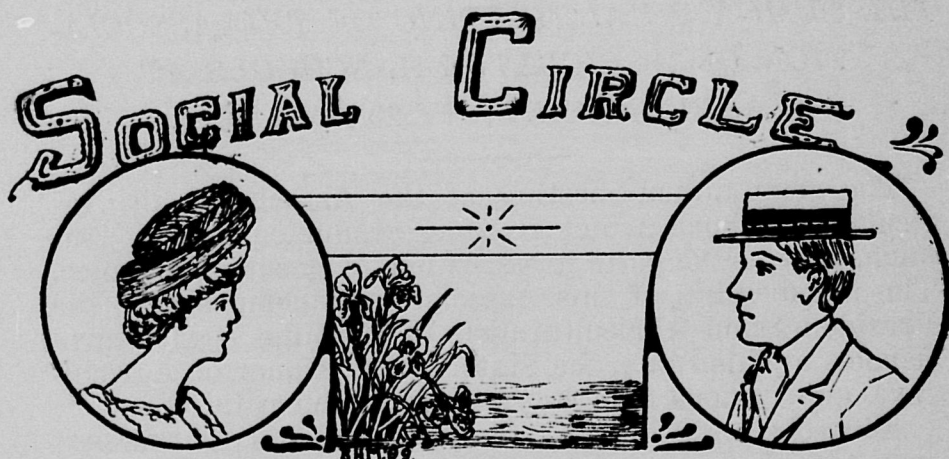
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Prof. J. R. Rutland, of our faculty, who was recently appointed State Inspector of the high schools has just returned from a two weeks inspection of the schools located in the Southern part of the State.

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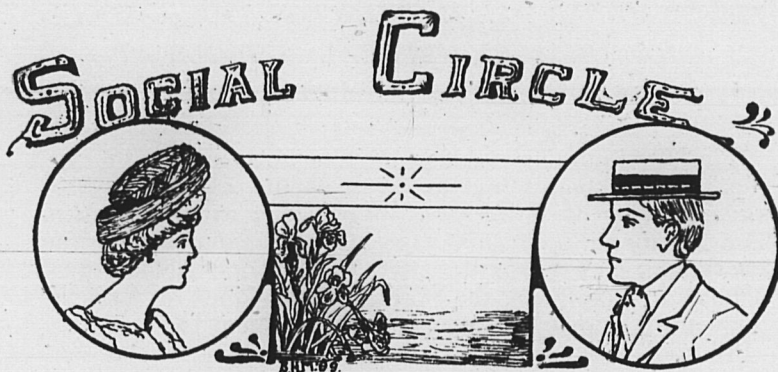
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Miss Annie Love Dowdell, of Lafayette, and Miss Mae Smith, from Philadelphia, have been visiting Mrs. B. B. Ross this week.

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It's left to you to make the rime,  
Who shaves his head in winter time,  
In plainest terms, should he not pass  
Without a doubt for a Jack, O.?

This lad with closely shaven head,  
As night came on had donned his bed,  
At midnight hour, while sound asleep,  
He was awakened. Three ghosts did creep.

No hair could rise upon his head,  
He wore a ghostly crown instead,  
It was a crown of mingled hue—  
Iodine and inky blue.

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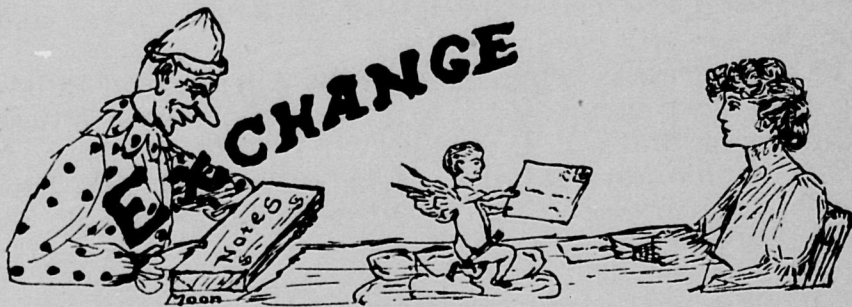
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It is a great pleasure to us when we find "The Mercерian" has arrived in the Exchange box, and a fight is usually on hand among the editors to see who shall read it first. We always expect to find something good in it and are never disappointed. In the January issue we find an article on Edgar Allen Poe which we think is written in the right spirit. Of course Poe had his faults, every body has. But how about the good side of him. The article brings out the credit that is due this great poet. We find also an article on another of our great poets, Paul Hamilton Hayne, which shows that the writer has looked well into the subject and came to a just conclusion concerning "The King Poet of the Old South."

The little poem "Regret" is good, but let us not follow too closely, rather reflect and in reflecting pass over the regrets and think of good things that did happen, not what might have happened.

The short stories are good and everything well taken care of. Here's looking for the next issue.

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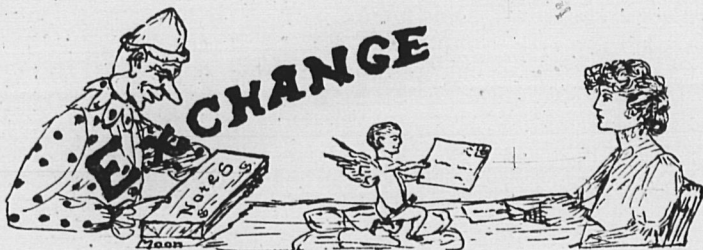
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Could not "The College Reflector" improve upon their arrangement somewhat. For instance: instead of stringing the short poem out one after the other why not scatter them about. It would add to the attractiveness of the magazine.



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*THE JOURNAL S. W. P. U.*

Just came in. Is one of the best we have received since the holidays. Just read "Tokens of Love", and practice it and you will have accomplished something in life. We do not, however, think the Athletic editor is in position to judge the doing of the S. I. A. A. but rather that he is spreading out a little too much.

In another place we have spoken of the article in the S. W. P. U. Journal concerning football of the past season, and contended that the editor was a little out of line and still think so, but since he has brought it up, here's a word from an Auburn man, not sent out with the sanction of any Auburn authority, but merely personal opinion and a few facts. The writer in the Journal defends L. S. U., doubtless they need it. If he had heard the L. S. U. team give nine rabs for Auburn after our game he would know they did not learn to speak English in our Southland. And it is a notable fact that the men from the North who find L. S. U. so attractive as an institution of learning are all crackerjack football players. True they may have come South for their health. But what a husky looking lot of invalids they are. Anyone who has seen Trenton kick a ball 60 yards will know that he has nothing the matter with him, at least not with his kicking apparatus. And Seip comes bearing down at 190 or 200 lbs. and he a very good end at that. And don't forget Thomas with his 220 lbs; his size would indicate that he had the dropsy but he usually drops on the ball when it comes near him like one who had practiced a little at it before he went to L. S. U. and there were at least three others on the team who hailed from parts beyond the Mason and Dixon line and who were as adept at handling the pigskin as the above named. And all this football had been learned at L. S. U. in two years. This is not the cry of the wounded, but rather an explanation of what the athletic editor of the Journal says are charges which Vanderbilt has trumped up simply because they could not stand to have to take a place other than first. I feel proud of the fact that Auburn was able to hold L. S. U. to so close a score. They undoubtedly had a great team but I always will believe that their men did not come inside the amateur ruling.

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*THE DUTCHMAN'S PHILOSOPHY.**THIS AND THE OLD COUNTRY.*

"Vell," said Mr. Hammerstein to his friend one morning, "I haff some goot news to tell you. Old mann Altmeyer iss come over to dis country mit his wife und little uns just ten days ago."

"Oh, dat iss ein goot ting," replied his friend, Schmidt, but, Hammerstein, I feel sorry that our Vaterland iss mit one mann less, und such ein goot one like mine old friend Altmeyer."

"Yes," broke in Hammerstein, "but just you think vot ein wonderful country iss dis. Ven I vas in der old country I thought der vas nothing like dos dear Vaterland, but I must tell you I mistake myself for dis America iss greater still."

"Why you say that?" asked Mr. Schmidt.

"Ah vell, first of all dis iss a free country mit free government und free speech. The rulers are made und not born. Every mann iss his own boss, und has ein share in de government; and ven er officer iss bad, dey can put him out of office und get ein goot one."

"Dis country has also free speech. You know vat I mean, mein friend. In der old country you know, if you say anything against dem Kaiser dey put you in jail, but in dis country you can say vat you please about President Rosenfeld like der Senator Tillman does und nobody cares. Dis iss ein grand privilege."

"Und vat iss more den dat everybody is treated alike here. Dere iss no nobility. Der poor boy has as goot ein chance as der rich boy.. It vas only last night dat I ask mine boy Hans vat will be, und he say he iss going to try to be President."

"You are right," answered Mr. Schmidt, "und I dink the Americans ought to be proud of his country."

"Dat dey are," replied Hammerstein. "Just let me tell you vat I once hear a big speaker say ven Rosenfeld vas running for President. He get up and said: "Fellow citizens, dis iss a great country, mit her snowy cotton fields in der South, her coal and iron and vast factories in dis East, und mit der gold mines in die Vest; mit her brave men and fair women, mit her glorious past and happy future, dis iss die fairest country under die sun, ours to haff und to hold," at which every mann rose, clapped his

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# Editorials

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## THE LAND OF TO-MORROW.

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What a flattering prospect lies before us when we look toward the land of tomorrow! How promising and hope-inspiring is this enchanted region! There we think we see ourselves working and achieving instead of idly planning what we shall do in the by-and-by. There we imagine we see Dame Fortune rushing to us that she may fill our wallet with her golden treasure. There we even think we see a crown of fame thrust upon us for some heroic deed or valuable contribution to society. It is the happy land where we think to see all of our cherished plans and ideals realized—a land where dreams come true.

But, wait a moment! Friend, doesn't experience teach us that to-morrow is very deceptive and delusive? Have we done this week what we thought last week we would do and have we done today what we expected yesterday that we should? Some of us failed to make as good grades last term as we expected to make or as we were expected to make, and we resolved to redeem ourselves this term. Examinations are now on us again; have we made the preparation we resolved to make? How easy it is to put off things until tomorrow! "Well, I'll frolic around with the boys to-night, but *to-morrow* I'll get busy," and so we keep on saying. Wonder what makes us think we are going to get busy to-morrow, do so many wonderful things when to-day seems so commonplace and void of opportunity. Why does to-day look so prosy and to-morrow so poetic? What reason have we to believe that we are going to prepare our lessons to-morrow, read a good book, and be punctual in the performance of all our college duties when to-day we are idle and negligent?

Yes, we all expect to do things in the future and be *men*, but we must remember that we are moulding our character and shaping our destiny every day, and that the things we do or left undone, and the habits we form to-day will either help us or hinder us in the prosecution of our plans for to-morrow. Every to-morrow has, in addition to its own cares and duties, all those which were neglected in the past, while its opportunities and possibilities are no greater than were those of yesterday. If



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### THE NEW LIBRARY.

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The moving of the library from the old quarters in the main building to the handsome new building was completed during the holidays. The library building is an ornament to the campus, and a source of pride to all who love old Auburn. The spacious reading room furnishes an attractive place for study and research. A good collection of reference books is ready at the students hand, and all the latest periodicals, of both general and technical character, are in the room.

The main collection of books is in the stock room back of the reading room. The collection contains, in addition to government documents and bound periodicals, about twelve thousand books exceptionally well chosen for departmental work as well as for general reading.

A valuable addition was recently made to the book collection by the generous gift of Mrs. O. D. Smith, who presented to the library one hundred and sixty-six volumes, formerly a part of the private library of Dr. O. D. Smith. We now have the library and books. It's up to us to use them.

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### THE Y. M. C. A. MOVEMENT MOVING.

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In the last issue of our paper we spoke of the plans that were then being formulated to raise money for a Y. M. C. A. lot and building. The faculty committee of the Y. M. C. A. figured principally in the formulation of the plans, and quite a number of live, enthusiastic students have been putting in some excellent work in the execution of the plans.

Here is the scheme briefly stated. A very convenient and desirable lot has been purchased, and the Association proposes to raise money enough among the Auburn students to pay for the lot this year and then extend the canvass for money to erect a modern Y. M. C. A. building. The building will have three stories and a basement. On

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the first floor will be office rooms for the Association and other college organizations, such as Orange and Blue and Glomerata Boards, rooms for hot and cold shower and tub baths and a swimming pool. On the second floor will be a large auditorium, a game room, where provision will be made for wholesome recreation and amusement, and one or two rooms for reading purposes and for student club meetings, etc. A bowling alley will be fitted out in the basement.

The third story will probably be given to students bedrooms and a few well furnished spare rooms for visiting alumni and friends.

The faculty advisory committee, which consists of Dr. Cary, Dr. Hinds, Professors Wilson, Webb, Brown, Ross and Rutland, proposes to see that a first class building is erected and furnished in an up-to-date manner with all the modern equipment and conveniences requisite for such a building. Now, this is not all talk and speculation. A committee consisting of Gaum and Howard, Childs, Richardson, Hanlin, Pittman, Geibel, Street and Lind, Venable, Ordway, Beaver, Young, Hutcheson, Grady, Clements, Byrd and Oliver, Stratford, Cogdell, Wilson, Green, Shinn, Davis and Fort went out and raised by subscription nearly four thousand dollars in one night among the students alone. Subscriptions have been gradually coming in since the night of the canvass from students that were not seen that night, and now the total subscription is \$4,500.00. The students will probably raise this to \$6,000 before the canvass is over. This is a very encouraging beginning and the men behind the movement do not propose to let up until they see the consummation of their plans. Auburn can't afford to let other institutions outstrip her along these lines. The new building will make college life pleasanter, will strengthen the influences for purity of life, and will help the college make better, stronger, and more useful men. Let every man that is interested in Auburn and the student life at Auburn get behind the movement. No college can boast a more loyal student body than Auburn, and we believe here is an excellent opportunity to show it.

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#### *SOME NEW COLLEGE PRESIDENTS OF THE PAST YEAR.*

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The University of Missouri, of Columbia, has been very rapid in recent development under the direction of Presi-

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---

#### *A GOOD START.*

---

We are pleased to note the removal of one of the mounds of earth running directly across the campus in front of the main building, that has been an eye sore since last fall. Keep the good work going; and perhaps at some future date, maybe commencement, our campus will not present such shocking sights to the aesthetic eyes of some of our visitors.

---

#### *"LEST WE FORGET."*

---

Well, fellows, another mid-term examination is upon us, and I suppose what cannot be avoided must be stood, so let us get down to some extra hard work; and after all, hard work is the only sound foundation of true, manly success. Some people may occasionally succeed for a while without really working, but they cannot fool themselves and other people very long, and let us remember that our records here will cause us either deep pleasure or remorse, as each of us best knows, at some future time.



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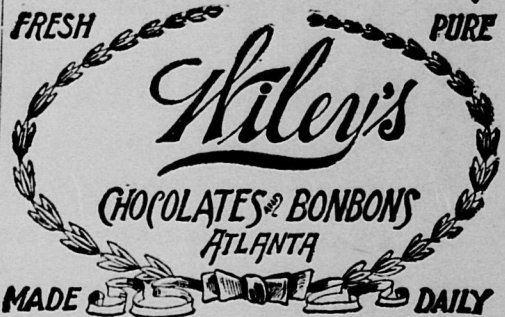
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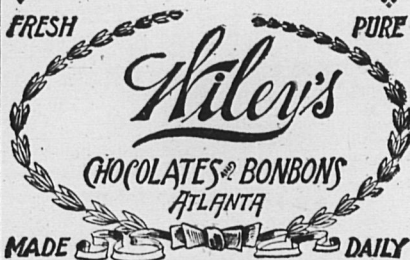
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Everything for the inner man that's  
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the acknowledged stand-  
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Caskets, Etc.

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BARBER SHOP

Here you can get the Best  
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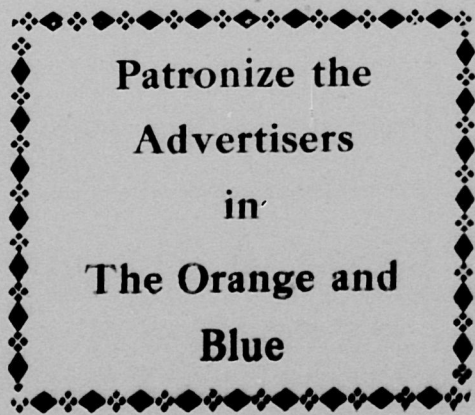
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# Alabama Polytechnic Institute

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**COURSES OF INSTRUCTION:** The courses of instruction include the Physical, Chemical and Natural Sciences, and with their applications; Agriculture, Mechanics, Astronomy, Mathematics, Civil and Electrical Engineering, Mining Engineering, Architecture, Drawing, English, French, German and Latin Languages, History, Political Economy, Mental Science, Physiology, Veterinary Science and Pharmacy. There are nine regular courses: (1) Civil; (2) Electrical; (3) Mechanical; (4) Architecture; (5) Mining Engineering; (6) Agriculture; (7) Chemistry; (8) Pharmacy; (9) Latin Science. (1) Course in Pharmacy Ph. G.; (2) Course in Veterinary Medicine, D. V. M.

**LABORATORY INSTRUCTION:** Laboratory instruction and practical work are given in the following departments: 1. Civil Engineering. 2. Electrical Engineering. 3. Telephone Engineering. 4. Mechanical Engineering. 5. Architecture. 6. Mining Engineering. 7. Mechanic Arts. 8. Technical Drawing. 9. Agriculture (Farm 304 acres, varied experiments). 10. Veterinary Science. 11. Horticulture. 12. Animal Industry, Five thoroughbred herds. Dairy. 13. Chemistry, Metallurgy, Assaying. 14. Pharmacy. 15. Physics. 16. Mineralogy. 17. Bacteriology. 18. Botany. 19. Biology. 20. Entomology.

**ATTENDANCE:** The attendance last year was 617, representing twelve States and two foreign countries; 66 counties of Alabama being represented.

**LOCATION:** The College is located in the town of Auburn, sixty miles east of Montgomery, on the line of the Western Railroad.

**BOARDING:** The College has no barracks or dormitories, and the students board with families of the town of Auburn, and thus enjoy all the protecting and beneficial influences of the family circle.

**EXPENSES:** There is no charge for tuition for residents of Alabama. Incidental fee per half session, \$2.50; Laundry Fee (first term) \$5.00; library fee per half session, \$1.00; surgeon's fee per half session, 2.50; laboratory fees in junior and senior years, \$5.00 per session; board per month \$12.00 to \$15.00. At houses rented by the College, board can be secured at \$9.50 per month. These fees payable on matriculation.

**CHAS. C. THACH, A. M., LL. D.,**  
**President.**

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**COURSES OF INSTRUCTION:** The courses of instruction include the Physical, Chemical and Natural Sciences, and with their applications; Agriculture, Mechanics, Astronomy, Mathematics, Civil and Electrical Engineering, Mining Engineering, Architecture, Drawing, English, French, German and Latin Languages, History, Political Economy, Mental Science, Physiology, Veterinary Science and Pharmacy. There are nine regular courses: (1) Civil; (2) Electrical; (3) Mechanical; (4) Architecture; (5) Mining Engineering; (6) Agriculture; (7) Chemistry; (8) Pharmacy; (9) Latin Science. (1) Course in Pharmacy Ph. G.; (2) Course in Veterinary Medicine, D. V. M.

**LABORATORY INSTRUCTION:** Laboratory instruction and practical work are given in the following departments: 1. Civil Engineering. 2. Electrical Engineering. 3. Telephone Engineering. 4. Mechanical Engineering. 5. Architecture. 6. Mining Engineering. 7. Mechanic Arts. 8. Technical Drawing. 9. Agriculture (Farm 304 acres, varied experiments). 10. Veterinary Science. 11. Horticulture. 12. Animal Industry, Five thoroughbred herds. Dairy. 13. Chemistry, Metallurgy, Assaying. 14. Pharmacy. 15. Physics. 16. Mineralogy. 17. Bacteriology. 18. Botany. 19. Biology. 20. Entomology.

**ATTENDANCE:** The attendance last year was 617, representing twelve States and two foreign countries; 66 counties of Alabama being represented.

**LOCATION:** The College is located in the town of Auburn, sixty miles east of Montgomery, on the line of the Western Railroad.

**BOARDING:** The College has no barracks or dormitories, and the students board with families of the town of Auburn, and thus enjoy all the protecting and beneficial influences of the family circle.

**EXPENSES:** There is no charge for tuition for residents of Alabama. Incidental fee per half session, \$2.50; Laundry Fee (first term) \$5.00; library fee per half session, \$1.00; surgeon's fee per half session, 2.50; laboratory fees in junior and senior years, \$5.00 per session; board per month \$12.00 to \$15.00. At houses rented by the College, board can be secured at \$9.50 per month. These fees payable on matriculation.

**CHAS. C. THACH, A. M., LL. D.,**

**President.**

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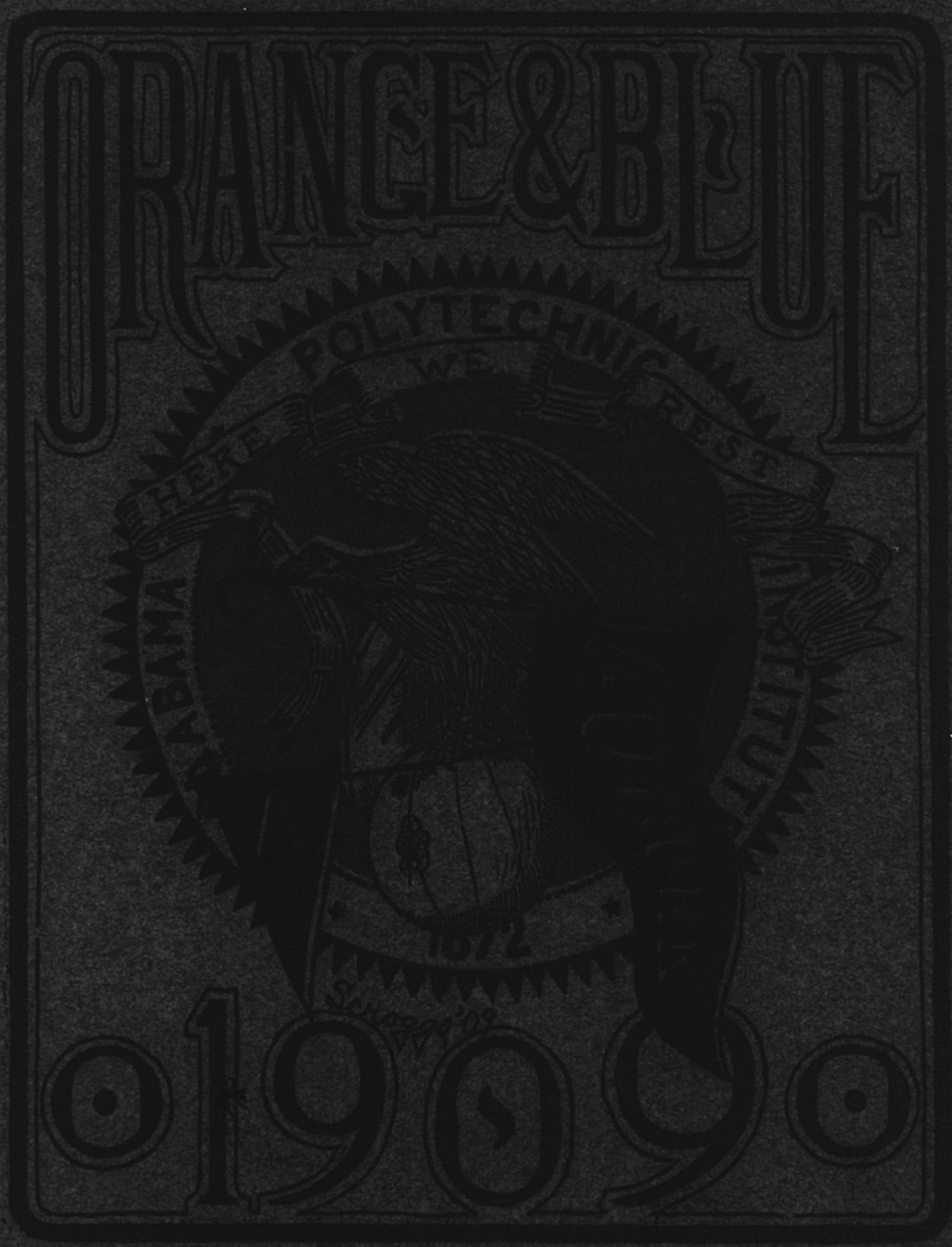
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